Preliminary DRAFT North Lake Washington Chinook Population - Tier I - Initial Habitat Project List Includes Potential Restoration and Protection Projects by Reach. Cottage Lake Reaches 1-6 & Cold Creeks Reaches 1-2

Ranking Notes:

- ☐ LWD Feasibility determined by ownership (H for public and M/L for private)
- ☐ Many non-specific restoration and protection projects received H Benefit Rankings and M/L feasibility until specific projects are identified.

NOTE: It may be valuable to prioritize protection projects in Cottage/Cold Creeks over those in Bear given the highly productive nature of this system

Reach 1: Cottage Creek from mouth to Avondale Way crossing Restoration

Technical Hypothesis: Reduce fine sediment inputs, add LWD, restore riparian conditions, reduce channel confinement.

Project #	Reach #	Reach Restora tion Benefit	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N280	1	3 of 4	3	Add Large Woody Debris to Cottage Lake Creek as opportunities arise in this reach.			Н	M/L
N281	1	3 of 4	new	Continue to work with private property owners in reach to restore riparian areas, increase in-channel complexity and add LWD. Use King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects report to identify specific potential projects.		In King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects habitat problems were identified, prioritized and solutions identified. Report covers LWD, in-channel restoration as well as riparian restoration. Information is still relevant and identified projects that have not yet been done should be pursued.	Н	M/L
N282	1	3 of 4	new	Explore opportunities to improve floodplain connection in reach by removing riprap or artificial constrictions.			Н	M/L
N283	1	3 of 4	new	Work with private property owners in reach to reduce water quality impacts of their landscaping practices.			M	М

Protection

Technical Hypothesis: Protect pool habitat and the habitat features that support the creation of pools (lwd, riparian function, and channel connectivity),

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anu	spawnin	u artas.

Project	Reach	Reach	Existing	NTAA	NTAA Name & Description	Approx.	Notes, Key Uncertainties	Benefits	
#	#	Prot.	Prot.	#		Cost	, ,	to	H, M, L
		Benefit	Priority					Chinook	
		Rank	(Y/N)					H, M. L	
N284	1	3 of 5		7	Forest Cover Protection - Acquire forest property,			Н	M/L
					development rights/conservation easements, and provide				
					enhanced incentives to retain and plant forest area				
					·				
					environments.				
N285	1	3 of 5		8e	Protect riparian forested buffers along Cottage Lake Creek.			Н	M/L
N286	1	3 of 5	Y	8c	Continue Bear Creek Waterways program to protect best			н	M/L
14200								•••	IVI/L
					remaining habitat. This reach is part of Waterways "Reach				
					E."				
N287	1	3 of 5		new	Protect instream flows in reach. Begin by identifying legal		Several strategies could be used to deal with illegal water	Н	L
					and illegal water withdrawals.		withdrawals. Education, incentives and enforcement could	= -	
					and megal water withdrawais.				
							all be used to achieve goals. Instream flows are critical in		
							Cottage/Cold Creeks because flows are so low.		

Reach 2: Cottage Creek from Avondale Way to beginning of good quality habitat Restoration

Project #	Reach #	Reach Restora tion Benefit	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	H, M, L
N288	2	4 of 4	3	Add Large Woody Debris to Cottage Lake Creek as opportunities arise in this reach.			H	M/L
N289	2	4 of 4	new	Restore riparian conditions along Cottage Lake Creek on Nickels Farm. Reduce fine sediment inputs from equestrian area.			Н	M/L
N290	2	4 of 4	new	Continue to work with private property owners in reach to restore riparian areas, increase in-channel complexity and add LWD. Use King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects report to identify specific potential projects.		In King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects habitat problems were identified, prioritized and solutions identified. Report covers LWD, in-channel restoration as well as riparian restoration. Information is still relevant and identified projects that have not yet been done should be pursued.	н	M
N291	2	4 of 4	new	Work with private property owners in reach to reduce water quality impacts of their landscaping practices.			М	М

Protection

Technical Hypothesis: Protect pool habitat and the habitat features that support the creation of pools (lwd, riparian function, and channel connectivity), and spawning areas.

Project	Reach	Reach	Existing	NTAA	NTAA Name & Description	Approx.	Notes, Key Uncertainties	Benefits	Feasib.
#	#	Prot. Benefit Rank	Prot. Priority (Y/N)	#	Trivitanio a Bossipasii	Cost	rotos, roy encortaminos	to Chinook H, M. L	H, M, L
N292	2	2 of 5		7	Forest Cover Protection - Acquire forest property, development rights/conservation easements, and provide enhanced incentives to retain and plant forest area environments.			Н	M/L
N293	2	2 of 5		8a	Protect 40-acre parcel on Cottage Lake Creek (Nickels Farm).			Н	M/L
N294	2	2 of 5	Y	8c	Continue Bear Creek Waterways program to protect best remaining habitat. This reach is part of Waterways "Reach E."			Н	M/L
N295	2	2 of 5		8e	Protect riparian forested buffers along Cottage Lake Creek.			Н	M/L
N296	2	2 of 5			Protect instream flows in reach . Begin by identifying legal and illegal water withdrawals.		Several strategies could be used to deal with illegal water withdrawals. Education, incentives and enforcement could all be used to achieve goals. Instream flows are critical in Cottage/Cold Creeks because flows are so low.	Н	L

Reach 3: Cottage Creek from beginning of good quality habitat to 2nd Avondale Way crossing Restoration

Technical Hypothesis: Reduce fine sediment inputs, add LWD, restore riparian conditions.

Project #	Reach #	Reach Restora tion Benefit	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	H, M, L
N297	3	2 of 4	3	Add Large Woody Debris to Cottage Lake Creek as opportunities arise in this reach. There are a few wide spots through Cross Roads development where LWD could be added.		LWD not as important here. Not much opportunity for channel movement in this reach.	M	L
N298	3	2 of 4	new	Work with private property owners upstream of Native Growth Protection Easements in reach to restore riparian buffers.		Invasives (nightshade) are a problem in this reach.	Н	M/L
N299	3	2 of 4	new	Explore opportunities to reforest cleared properties in reach, particularly in open space tracts.			М	M

N300	3	2 of 4	new	Continue to work with private property owners in reach to restore riparian areas, increase in-channel complexity and add LWD. Use King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects report to identify specific potential projects.	In King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects habitat problems were identified, prioritized and solutions identified. Report covers LWD, in-channel restoration as well as riparian restoration. Information is still relevant and identified projects that have not yet been done should be pursued.	Н	M/L
N301	3	2 of 4	new	Work with private property owners in reach to reduce water quality impacts of their landscaping practices.		М	M

Protection

Technical Hypothesis: Protect pool habitat and the habitat features that support the creation of pools (lwd, riparian function, and channel connectivity), and spawning areas.

		Reach		NTAA	NTAA Name & Description	Approx.	Notes, Key Uncertainties	Benefits	Feasib.
#	#	Prot.	Prot.	#	NATA Name & Description	Cost	Troics, itey officertainties	to	H, M, L
			Priority					Chinook	
		Rank	(Y/N)					H, M. L	
N302	3	1 of 5		7	Forest Cover Protection - Acquire forest property,			H	M/L
					development rights/conservation easements, and provide				
					enhanced incentives to retain and plant forest area				
					environments.				
N303	3	1 of 5	Y	8c	Continue Bear Creek Waterways program to protect best			Н	M/L
					remaining habitat. This reach is part of Waterways "Reach				
					E."				
N304	3	1 of 5		8e	Protect riparian forested buffers along Cottage Lake Creek.			Н	М
					In particular, stop encroachment into riparian buffers that are				
					part of Native Growth Protection Easements in reach.				
N305	3	1 of 5		new	Protect instream flows in reach. Begin by identifying legal		Explore whether or not withdrawals at nursery site in reach	Н	L
					and illegal water withdrawals.		is a problem. Several strategies could be used to deal with		
					and megan mater minaranas.		illegal water withdrawals. Education, incentives and		
							enforcement could all be used to achieve goals. Instream		
1							flows are critical in Cottage because flows are so low.		

Reach 4: Cottage Creek from 2nd Avondale Way crossing to begin wetland below lake Restoration

Technical Hypothesis: Reduce fine sediment inputs, add LWD, restore riparian conditions.

Project #	Reach #	Reach Restora tion	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook	H, M, L
N306	4	Benefit 1 of 4	3	Add Large Woody Debris to Cottage Lake Creek as opportunities arise in this reach.		Opportunities are limited in this reach - lots of houses close to the creek. Not much wood present.	H, M. L	L
N307	4	1 of 4	new	Continue to work with private property owners in reach to restore riparian areas, increase in-channel complexity and add LWD. Use King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects report to identify specific potential projects.		In King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects habitat problems were identified, prioritized and solutions identified. Report covers LWD, in-channel restoration as well as riparian restoration. Information is still relevant and identified projects that have not yet been done should be pursued. Look for and remove invasive nightshade.	Н	M/L
N308	4	1 of 4	new	Work with private property owners in reach to reduce water quality impacts of their landscaping practices.			М	М

Protection

Technical Hypothesis: Protect pool habitat and the habitat features that support the creation of pools (lwd, riparian function, and channel connectivity), and spawning areas.

Project	Reach	Reach	Existing	NTAA	NTAA Name & Description	Approx.	Notes, Key Uncertainties	Benefits	Feasib.
#	#	Prot.	Prot.	#		Cost		to	H, M, L
			,					Chinook	
		Rank	(Y/N)					H, M. L	
N309	4	3 of 5		/	Forest Cover Protection - Acquire forest property,			Н	M/L
					development rights/conservation easements, and provide				
					enhanced incentives to retain and plant forest area				
					environments.				
					environments.				
N310	4	3 of 5		8b	Protect Cold Creek Headwaters/Recharge Area.		There are three springs near this reach.	Н	Н
N311	4	3 of 5	Y	8c	Continue Bear Creek Waterways program to protect best			Н	M/L
					remaining habitat. This reach is part of Waterways "Reach				
					C."				
N1212	1	3 of 5		80					844
N312	4	3 01 3		0e	Protect riparian forested buffers along Cottage Lake Creek.			Н	M/L
N313	4	3 of 5		new	Protect instream flows in reach. Begin by identifying legal		Several strategies could be used to deal with illegal water	Н	L
					and illegal water withdrawals.		withdrawals. Education, incentives and enforcement could		
					and magar trator triangular		all be used to achieve goals. Instream flows are critical in		
							Cottage/Cold Creeks because flows are so low.		

Reach 5 & 6:

Restoration

Technical Hypothesis: Reduce fine sediment inputs, add LWD, restore riparian conditions.

Project #	Reach #	Restora tion Benefit	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N314	5,6	5 of 6	3	Add Large Woody Debris to Cottage Lake Creek, particularly in areas that are already publicly owned.			Н	Н
N315	5,6	5 of 6	new	Portion of Cold Creek Natural Area is an altered bog in need of restoration.		Will need to study restoration needs of bog. Possibly fill cross channels and ditches in bog. Remove spirea.	M	Н
N316	5,6	5 of 6	new	Continue to work with private property owners in reach to restore riparian areas, increase in-channel complexity and add LWD. Use King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects report to identify specific potential projects.		In King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects habitat problems were identified, prioritized and solutions identified. Report covers LWD, in-channel restoration as well as riparian restoration. Information is still relevant and identified projects that have not yet been done should be pursued.	Н	M/L
N317	5,6	5 of 6	new	Work with private property owners in reach to reduce water quality impacts of their landscaping practices.			М	М

Protection

Technical Hypothesis: Protect pool habitat and the habitat features that support the creation of pools (lwd, riparian function, and channel connectivity), and spawning areas.

Project	Reach	Reach	Existing	NTAA	NTAA Name & Description	Approx.	Notes, Key Uncertainties	Benefits	Feasib.
#	#	Prot.	Prot.	#		Cost	Training Chiadrian Mass	to	H, M, L
		Benefit	Priority					Chinook	
		Rank	(Y/N)					H, M. L	
N318	5,6	3 of 5		7	Forest Cover Protection - Acquire forest property,			Н	M/L
					development rights/conservation easements, and provide				
					, ,				
					enhanced incentives to retain and plant forest area				
					environments.				
N319	5,6	3 of 5		8b	Protect Cold Creek Headwaters/Recharge Area.		There are three springs near reach.	Н	Н
N320	5,6	3 of 5	Y	8c	Continue Bear Creek Waterways program to protect best			H	M/L
					remaining habitat. This reach is part of Waterways "Reach				
					C"				
					U.				
N321	5,6	3 of 5		8e	Protect riparian forested buffers along Cottage Lake Creek.			Н	M/L

N322	5,6	3 of 5	new	Protect instream flows in reach. Begin by identifying legal	Several strategies could be used to deal with illegal water	Н	L
				and illegal water withdrawals.	withdrawals. Education, incentives and enforcement could		
					all be used to achieve goals. Instream flows are critical in		
					Cottage/Cold Creeks because flows are so low.		

Cold Creek Reach 1-2:

Restoration

Technical Hypothesis: Reduce fine sediment inputs, add LWD, restore riparian conditions.

Project	Reach	Reach	NTAA #	NTAA Name & Description	Approx.	Notes, Key Uncertainties	Benefits	Feasib.
#	#	Restora			Cost	· · · · · · · · · · · · · · · · · · ·	to	H, M, L
		tion					Chinook	
		Benefit					H, M. L	
N323	1,2		new	Portion of Cold Creek Natural Area is an altered bog in need		Will need to study restoration needs of bog. Possibly fill	M	Н
				of restoration.		cross channels and ditches in bog. Remove spirea.		
N324	1,2		new	Continue to work with private property owners in reach to restore riparian areas, increase in-channel complexity and add LWD. Use King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects report to identify specific potential projects.		In King County's 1994 Bear Creek and Evans Creek Capital Improvement Program Projects habitat problems were identified, prioritized and solutions identified. Report covers LWD, in-channel restoration as well as riparian restoration. Information is still relevant and identified projects that have not yet been done should be pursued.	Н	M/L
N325	1,2		new	Work with private property owners in reach to reduce water quality impacts of their landscaping practices.			М	M

Protection

Technical Hypothesis: Protect pool habitat and the habitat features that support the creation of pools (lwd, riparian function, and channel connectivity),

and spawning areas. Protect cold water temperatures by protecting headwaters and sources of groundwater.

Project	Reach	Reach	Existing	NTAA	NTAA Name & Description	Approx.	Notes, Key Uncertainties	Benefits	Feasib.
#	#	Prot.	Prot. Priority	#	Trivit realing a Bosonpasi.	Cost	Troises, riey Chestramiae	to Chinook H, M. L	H, M, L
N326	1,2				Cold Creek Protection - Determine the source of and properly protect the aquifer for the Cold Creek groundwater springs in Cottage Lake Creek. (Note: groundwater flows from incorporated Woodinville and possibly parts of Little Bear subarea and Lake Leota.)			Н	M
N327	1,2				Forest Cover Protection - Acquire forest property, development rights/conservation easements, and provide enhanced incentives to retain and plant forest area environments.			Н	M/L
N328	1,2			8b	Protect Cold Creek Headwaters/Recharge Area.			Н	Н

N329	1,2	Y		Continue Bear Creek Waterways program to protect best remaining habitat. This reach is part of Waterways "Reach C." In particular, large forested parcels south of NE Woodinville Road.	Н	M/L
N330	1,2		8e	Protect riparian forested buffers along Cold Creek.	Н	M/L
N331	1,2			Protect instream flows in reach. Begin by identifying legal and illegal water withdrawals. Several strategies could be used to deal with illegal wat withdrawals. Education, incentives and enforcement could be used to achieve goals. Instream flows are critical in Cottage/Cold Creeks because flows are so low.	ld	L